



Revised 02/20/01

Sheet 1 of 4

Form PTO-1449 U.S. Department of Commerce (Modified) Patent and Trademark Office		Attorney Docket No. S-94,652		Serial No. 09/862,855										
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Applicant(s) Peter M. Goodwin												
		Filing Date 5/21/01		Group 1637										
37 CFR 1.98(b)														
U.S. PATENTS DOCUMENTS														
EXAMINER INITIAL	PATENT NUMBER			ISSUE DATE	PATENTEE	CLASS	SUB CLASS	FILING DATE						
TS		6	1	8	3	9	5	8	02/06/01	Stanton, Jr.	435	6	05/06/98	
↓		6	0	0	4	7	4	4	12/21/99	Goelet et al.	435	5	10/11/91	
		5	2	7	4	2	4	0	12/28/93	Mathies et al.	250	458.1	02/24/92	
		5	4	3	6	1	3	0	07/25/95	Mathies et al.	436	6	10/26/93	
		5	6	5	2	0	9	9	07/29/97	Conrad	435	6	08/18/94	
	TS		5	6	5	4	4	1	9	08/05/97	Mathies et al.	536	25.4	02/01/94
FOREIGN PATENT DOCUMENTS														
EXAMINER INITIAL	PATENT NUMBER			ISSUE DATE	COUNTRY	CLASS	SUB CLASS	Translation YES NO						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)														
TS	✓ Cai et al., (2000) "Flow cytometry-based minisequencing: A new platform for high-throughput single-nucleotide polymorphism scoring," <i>Genomics</i> 66, 135-143.													
↓	✓ Davidson S. (2000) "Research suggests importance of haplotypes over SNPs" <i>Nat. Biotech.</i> 18: 1134-1135.													
	✓ Drysdale C.M. et al. (2000) "Complex promoter and coding region beta(2)-adrenergic receptor haplotypes alter receptor expression and predict in vivo responsiveness" <i>PNAS</i> 97: 10483-10488.													
	✓ Taton, T.A. et al. (2000) "Haplotyping by force." <i>Nature Biotechnology</i> 18: 713-713.													
TS	✓ Wahlestedt C. et al. (2000) "Potent and nontoxic antisense oligonucleotides containing locked nucleic acids," <i>PNAS</i> 97: 5633-5638.													
EXAMINER: /Teresa Strzelecka/					DATE CONSIDERED: 05/05/2006									
*EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.														



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		Filing Date	Group 1637

37 CFR 1.98(b)

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

TS	✓ Wooley A.T. et al. (2000) "Direct haplotyping of kilobase-size DNA using carbon nanotubes probes," <i>Nature Biotechnology</i> 18: 760-763.
	✓ Brookes A.J. et al (1999), "The essence of SNPs," <i>Gene</i> 234:177-186.
	✓ Chen X.N. et al. (1999) "Homogeneous genotyping assays for single nucleotide polymorphisms with fluorescence resonance energy transfer detection," <i>Genetic Analysis Biomolecular Engineering</i> 14 (5-6): 157-163.
	✓ Hodge S.E. et al (1999). "Loss of information due to ambiguous haplotyping of SNPs". <i>Nat. Genetics</i> . 21:360-361.
	✓ Lyamichev, V. et al. (1999) "Polymorphism Identification and quantitative detection of genomic DNA by invasive cleavage of oligonucleotide probes," <i>Nat. Biotechnol.</i> 17: 292-296.
	✓ Kwok P. (1999). "Single nucleotide polymorphism libraries: Why and how are we building them?" <i>Molecular Medicine Today</i> 5:538-543.
	✓ Orum, H. et al. (1999) "Detection of the Factor V Leiden mutation by direct allele specific hybridization of PCR amplicons to photoimmobilized locked nucleic acids," <i>Clinical Chemistry</i> 45:1898-1905.
	✓ VanDongen, J.M. et al. (1999), "Standardized RT-PCR analysis of fusion gene transcripts from chromosome aberrations in acute leukemia for detection of minimal residual disease: Report of the BIOMED-1 Concerted Action: Investigation of minimal residual disease in acute leukemia," <i>Leukemia</i> 13: 1901-28.
	✓ Vet, J. A. M. et al. (1999) "Multiplex detection of four pathogenic retroviruses using molecular beacons," <i>Proceedings of the National Academy of Sciences of the United States of America</i> 96(11): 6394-6399.
	✓ Vogelstein, B. (1999) "Digital PCR," <i>PNAS</i> 96(16): 9236-9241.
	✓ Cai, H. et al. (1998). "Flow cytometry-based hybridization and polymorphism analysis," <i>Proc. SPIE</i> 3256: 171-177.
TS	✓ Koshkin, A.A. et al. (1998) "LNA (Locked Nucleic Acids): synthesis of the adenine, cytosine, guanine, 5-methylcytosine, thymine and uracil bicyclonucleoside monomers, oligomerisation, and unprecedented nucleic acid recognition" <i>Tetrahedron</i> 54: 3607-3630.

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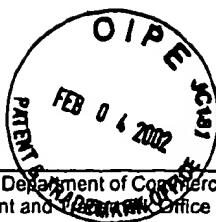


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37 CFR 1.98(b)					
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)					
TS	✓	Kostrikis, L. G. et al. (1998). "Molecular beacons : Spectral genotyping of human alleles," <i>Science</i> 279 (5354): 1228-1229.			
	✓	Landegren, U. et al. (1998). "Reading bits of genetic information : methods for single-nucleotide polymorphism analysis," <i>Genome Research</i> 8 (8): 769-776.			
	✓	Luthra, R. et al. (1998) "Novel 5'-exonuclease-based real-time PCR assay for the detection of T(14-18)(Q32-Q21) in patients with follicular lymphoma," <i>American Journal of Pathology</i> 153 (1): 63-68.			
	✓	Tyagi, S. et al. (1998) "Multicolor molecular beacons for allele discrimination," <i>Nature Biotechnology</i> 16 (1): 49-53.			
	✓	Castro, A. et al. (1997). "Single-molecule detection of specific nucleic-acid sequences in unamplified genomic DNA," <i>Analytical Chemistry</i> 69 (19): 3915-3920.			
	✓	Castro, A. et al. (2000). "Ultrasensitive, direct detection of a specific DNA sequence of Bacillus anthracis in solution," <i>The Analyst Communication</i> 125 : 9-11.			
	✓	Wooley A.T. et al. (2000) "Direct haplotyping of kilobase-size DNA using carbon nanotubes probes," <i>Nature Biotechnology</i> 18 : 760-763.			
	✓	Ha, T. et al. (1996) "Probing the interaction between two single molecules: Fluorescence resonance energy transfer between a single donor and a single acceptor," <i>Proc. Natl. Acad. Sci.</i> 93 : 6264-6268.			
	✓	Look, A.T. (1997) "Oncogenic transcription factors in the human acute leukemias" <i>Science</i> 278 : 1059-64.			
	✓	Syvanen, A.C. et al. (1997) "Minisequencing: a specific tool for DNA analysis and diagnostics on oligonucleotide arrays" <i>Genome Res.</i> 7 : 606-614.			
	✓	Schwille, P. et al. (1997) "Dual-color fluorescence cross-correlation spectroscopy for multicomponent diffusional analysis in solution" <i>Biophysical Journal</i> 72 : 1878-1886.			
	✓	Goodwin, P. M. et al. (1996). "Single-molecule detection in liquids by laser-induced fluorescence," <i>Accounts of Chemical Research</i> 29 (12): 607-613.			
	✓	Keller, R. A. et al. (1996) "Single-molecule fluorescence analysis in solution." <i>Applied Spectroscopy</i> 50 (7): A12-A32.			
↓	✓	Kinjo, M. et al. (1995) "Ultrasensitive hybridization analysis using fluorescence correlation spectroscopy," <i>Nucleic Acids Research</i> 23 (10): 1795-1799.			
TS	✓	Eigen, M. et al. (1994) "Sorting single molecules: Application to diagnostics and evolutionary biotechnology" <i>PNAS</i> 91 : 5740-5747.			
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37 CFR 1.98(b)			
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)			
TS	✓	Wittung, P. et al. (1994) "DNA-like double helix formed by peptide nucleic acid," <i>Nature</i> 368 : 561-563.	
	✓	Egholm, M., et al. (1993) "PNA hybridizes to complementary oligonucleotides obeying the Watson-Crick hydrogen bonding rules" <i>Nature</i> 365 : 566-568.	
	✓	Zhang L. (1992) "Whole genome amplification from a single cell: Implications for genetic analysis," <i>PNAS</i> 89 :5847-5851.	
	✓	Holland, P. M. et al. (1991) "Detection of specific polymerase chain-reaction product by utilizing the 5'-3' exonuclease activity of <i>Thermus-Aquaticus</i> DNA-polymerase," <i>PNAS</i> 88 (16): 7276-7280.	
	✓	Ruano, G. et al. (1990) "Haplotype of multiple polymorphisms resolved by enzymatic amplification of single DNA molecule," <i>PNAS</i> 87 :6296-6300.	
	✓	Shera, E.B. et al. (1990) "Detection of single fluorescent molecules," <i>Chemical Physics Letters</i> 174 (6): 553-557.	
	✓	Syvanen, A. C. et al. (1990) "A primer-guided nucleotide incorporation assay in the genotyping of apolipoprotein-E," <i>Genomics</i> 8 (4): 684-692.	
TS	✓	Landegren, U. et al. (1988) "A Ligase-mediated gene detection technique," <i>Science</i> 241 (4869): 1077-1080.	
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		Filing Date May 22, 2001		Group 1637		
37 CFR 1.98(b)						
U.S. PATENTS DOCUMENTS						
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FOREIGN PATENT DOCUMENTS						
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	Kostrikis, J. G. et al. Spectral Genotyping of Human Alleles. Science. 20 February 1998, Vol. 279, No. 20, pages 1228-1229. duplicate					
	Landegren, U. et al. Reading Bits of Genetic Information: Methods for Single-Nucleotide Polymorphism Analysis. Genome Research. 1998, Vol. 8, pages 769-771. duplicate					
	Goodwin, P.M. et al. Single-Molecule Detection in Liquids by Laser-Inducted Fluorescence. Acc. Chem. Res. 1996, Vol. 29, pages 607-613. duplicate					
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	Applicant(s) Hong Cai et al.	
	Filing Date May 22, 2001	Group 1045 1637

U.S. PATENTS DOCUMENTS

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TS			6	3	5	5	4	2	0	03/12/02	Chan	435	6	08/13/98
TS			5	6	6	5	5	4	0	09/09/97	Lebo	435	6	11/29/93

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